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TECHNICAL NOTE

U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF LAND MANAGEMENT

PRESCRIBED BURNING OF THE SAGEBRUSH

AND PINYON - JUNIPER COMMUNITIES:

A SELECTED BIBLIOGRAPHY

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Introduction

It has been estimated that there are approximately 270 million acres of sagebrush (Artemisia spp.) community and 60 million acres of pinyon (Pinus spp.) and juniper (Juniperus spp.) in the western United States (Mueggler 1976). In many cases these plant communities provide valuable food and cover for a variety of wildlife species as well as livestock. However, with the arrival of white man in the west came significant amounts of livestock grazing, which reduced fuel sources to a point that spreading capabilities of wildfires were reduced. In addition, increased fire control efforts reduced the frequency and extent of many wildfires. The effect on plant communities was dramatic. Today, over much of the west, the species composition of the sagebrush-grass community has been effectively altered from one which favors plants that are adapted to periodic burning to those that thrive under fire protection. This has resulted in an increased density of sagebrush over much of its historic range and encroachment of pinyon and juniper into areas previously unoccupied by these species.

In recent years there has been increased interest in the use of prescribed burning for habitat improvement for livestock and wildlife. This has proven to be a highly successful, economical, and "natural" means of increasing forage production and habitat diversity into the sagebrush and pinyon-juniper ecosystem.

Before any attempt to initiate a prescribed burning program is made, it is important that land managers determine the long-term objectives of burning as well as the impacts on the environment. Fortunately, there

is an abundant source of information covering this subject which facilitates the manager's task. This paper provides sources for a number of reports, symposiums, and research projects conducted on areas where prescribed burning has taken place.

D. C. McCluskey

Studies Listed By State Coded By Number

Arizona: 1, 2, 3, 4, 5, 6, 20, 28, 29, 30, 39, 40, 41, 61, 74, 76, 77,
78, 79, 80, 81, 82, 84, 91, 96, 97, 107, 108, 109, 110, 111,
112, 117, 118, 121, 122, 126, 127, 128, 129, 130, 132, 143, 145,
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Colorado: 44, 51, 66, 101, 125, 195

Idaho: 11, 17, 18, 19, 26, 27, 65, 67, 191

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Nevada: 10, 11, 15, 16, 29, 34, 93, 94, 167, 177

New Mexico: 1, 29, 30, 49, 50, 61, 62, 106, 119, 120, 137, 144, 162, 174, 175

North Dakota: 48

Oregon: 35, 45, 65

South Dakota 53, 54, 55, 146

Utah: 1, 8, 9, 11, 14, 22, 23, 24, 25, 29, 30, 31, 32, 36, 37, 38, 44, 57,
58, 60, 64, 90, 123, 136, 138, 139, 140, 141, 168, 169, 176, 184, 195

Wyoming: 11, 56, 89, 92

Studies Listed By Category Of Impact

Birds: 13, 64, 71, 81, 93, 101, 107, 157, 159, 164, 174, 175, 176, 177, 178

Mammals: 8, 13, 34, 38, 71, 81, 82, 90, 97, 101, 102, 107, 108, 110, 111,
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Vegetation: 6, 7, 9, 15, 17, 18, 19, 20, 28, 29, 30, 31, 32, 33, 35, 43,
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Watershed: 22, 23, 24, 25, 39, 52, 57, 60, 128, 129, 130, 161, 166, 184, 196

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